

ABSTRACT OF THE DISCLOSURE

A method for improving disease diagnosis using contrast enhancement presentation comprising: providing an input digital diagnostic image; applying a *decomposition* filter bank to the input digital diagnostic image;

5 constructing a tone scale curve from the input digital diagnostic image; applying said tone scale curve to the input digital diagnostic image to produce a tone-scaled image; applying a decomposition filter bank to the tone-scaled image; generating the contrast weight control signals from the input digital diagnostic image by extracting the high contrast edge signals at the coarse scale; adjusting the

10 decomposition outputs from both the input image and the tone-scaled image according to the contrast weight control signals; and applying a reconstruction filter bank to the adjusted signals to produce a contrast enhancement presentation output image.

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